

**Notice of Allowability**

Application No.

10/743,998

Applicant(s)

KOYAMA, HITOSHI

Examiner

Tai Duong

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-4.
3. ☒ The drawings filed on 24 December 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date ____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>12/24/03</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                               | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other ____.   |

### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: ✓

Claim 1 is allowed over the prior art of record because none of the prior art discloses or suggests a liquid crystal display device comprising black matrix as a light shield member that is formed on the second substrate (color filter substrate), the black matrix extending in the one direction at each of the pixels and formed so as to be opposed to side portions located on both sides of the reflective portion and the transmissive portion, wherein a width of portions of the black matrix that are opposed to the side portions located on both sides of the transmissive portion being greater than a width of portions of the black matrix that are opposed to the side portions located on both sides of the reflective portion. Claims 2-4 are also allowed since they depend on the allowed claim 1.


Ozawa et al disclose a black matrix as a light shield member that is formed on the second substrate (color filter substrate) facing the boundary regions between the reflective portion and the transmissive portion. However, Ozawa et al are silent about the features "*the black matrix extending in the one direction at each of the pixels and formed so as to be opposed to side portions located on both sides of the reflective portion and the transmissive portion, wherein a width of portions of the black matrix that are opposed to the side portions located on both sides of the transmissive portion being greater than a width of portions of the black matrix that are opposed to the side portions located on both sides of the reflective portion*".

Baek et al disclose a black matrix as a light shield member that is formed on the second substrate (color filter substrate) facing the boundary regions between the reflective portion and the transmissive portion. However, Baek et al are silent about the features *"the black matrix extending in the one direction at each of the pixels and formed so as to be opposed to side portions located on both sides of the reflective portion and the transmissive portion, wherein a width of portions of the black matrix that are opposed to the side portions located on both sides of the transmissive portion being greater than a width of portions of the black matrix that are opposed to the side portions located on both sides of the reflective portion"*.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Tai Duong at telephone number (571) 272-2291.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



DUNG T. NGUYEN  
PRIMARY EXAMINER



TVD

06/05